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NOTICE OF ALLOWANCE AND FEE(S) DUE

000181

7590

03/04/2004

MILES & STOCKBRIDGE PC 1751 PINNACLE DRIVE SUITE 500 MCLEAN, VA 22102-3833

EXAMINER NGUYEN, THINH T

ART UNIT

PAPER NUMBER

2818

DATE MAILED: 03/04/2004

	APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
•	10/041 601	01/10/2002	Kiyoshi Nakai	XA-9596	5105	

TITLE OF INVENTION: SEMICONDUCTOR INTEGRATED CIRCUIT DEVICE

APPLN. TYPE	SMALL ENTITY	ISSUE FEE	PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1330	\$300	\$1630	06/04/2004

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE REFLECTS A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE APPLIED IN THIS APPLICATION. THE PTOL-85B (OR AN EQUIVALENT) MUST BE RETURNED WITHIN THIS PERIOD EVEN IF NO FEE IS DUE OR THE APPLICATION WILL BE REGARDED AS ABANDONED.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status is changed, pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above and notify the United States Patent and Trademark Office of the change in status, or

If the SMALL ENTITY is shown as NO:

- A. Pay TOTAL FEE(S) DUE shown above, or
- B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check the box below and enclose the PUBLICATION FEE and 1/2 the ISSUE FEE shown above.
- ☐ Applicant claims SMALL ENTITY status. See 37 CFR 1.27.
- II. PART B FEE(S) TRANSMITTAL should be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). Even if the fee(s) have already been paid, Part B - Fee(s) Transmittal should be completed and returned. If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted.
- III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail

Mail Stop ISSUE FEE Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

(703) 746-4000 or Fax

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks I through 4 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block I, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications. Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission. CURRENT CORRESPONDENCE ADDRESS (Note: Legibly mark-up with any corrections or use Block 1) 000181 7590 03/04/2004 MILES & STOCKBRIDGE PC Certificate of Mailing or Transmission I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPTO, on the date indicated below. 1751 PINNACLE DRIVE SUITE 500

MCLEAN, VA 22102-3833 (Depositor's name (Signature (Date)

ATTORNEY DOCKET NO. CONFIRMATION NO. APPLICATION NO. FILING DATE FIRST NAMED INVENTOR XA-9596 10/041.601 01/10/2002 Kiyoshi Nakai

TITLE OF INVENTION: SEMICONDUCTOR INTEGRATED CIRCUIT DEVICE

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nonprovisional	nonprovisional NO \$13		0 \$300		\$1630	06/04/2004
EXAMINER		ART UNIT		CLASS-SUBCLASS		
NGUYEN,	, ТНІНН Т	2818		257-296000		
Change of correspondence address or indication of "Fee Address" (37 CFR 1.363). Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached. "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required.			names of up agents OR, alto firm (having agent) and the	on the patent front page to 3 registered patent ernatively, (2) the name is a member a registered names of up to 2 registered ents. If no name is list	attorneys or 1e of a single attorney or 2stered patent	

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. Inclusion of assignee data is only appropriate when an assignment has been previously submitted to the USPTO or is being submitted under separate cover. Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE

(B) RESIDENCE: (CITY and STATE OR COUNTRY)

Please check the appropriate assignee category or category	ories (will not be printed on the patent);	☐ individual	☐ corporation or other private group entity	government		
4a. The following fee(s) are enclosed:	4b. Payment of Fee(s):	-				
☐ Issue Fee	☐ A check in the amo	ount of the fee(s)	is enclosed.			
☐ Publication Fee	Payment by credit	card. Form PTO-	2038 is attached.			
☐ Advance Order - # of Copies	The Director is he Deposit Account Nur	☐ The Director is hereby authorized by charge the required fee(s), or credit any overpayment, to Deposit Account Number(enclose an extra copy of this form).				
Director for Patents is requested to apply the Issue Fee a	and Publication Fee (if any) or to re-apply	any previously p	aid issue fee to the application identified abo	ove.		
(Authorized Signature)	(Date)					
NOTE; The Issue Fee and Publication Fee (if requiother than the applicant; a registered attorney or aginterest as shown by the records of the United States P	red) will not be accepted from anyone gent; or the assignee or other party in atent and Trademark Office.					
This collection of information is required by 37 CFF obtain or retain a benefit by the public which is to application. Confidentiality is governed by 35 U.S.C. estimated to take 12 minutes to complete, including a completed application form to the USPTO. Time w case. Any comments on the amount of time you suggestions for reducing this burden, should be sent Patent and Trademark Office, U.S. Department 22313-1450. DO NOT SEND FEES OR COMPLISEND TO: Commissioner for Patents, Alexandria, Vin	gathering, preparing, and submitting the ill vary depending upon the individual require to complete this form and/or to the Chief Information Officer, U.S. of Commerce, Alexandria, Virginia ETED FORMS TO THIS ADDRESS. rginia 22313-1450.	·				
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APPLICATION NO.	F	ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/041,601		01/10/2002	Kiyoshi Nakai	XA-9596	5105
000181	7590	03/04/2004		EXAM	INER
MILES & ST			NGUYEN,	NGUYEN, THINH T	
1751 PINNAC SUITE 500	LE DRIVE			ART UNIT	PAPER NUMBER
MCLEAN, VA	22102-383	33		2818	
				DATE MAILED: 03/04/200	4

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 114 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 114 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) system (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (703) 305-1383. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at (703) 305-8283.

	Application No.	Applicant(s)	- B
	10/041,601	NAKAI ET AL.	
Notice of Allowability	Examiner	Art Unit	
	Thinh T Nguyen	2818	
The MAILING DATE of this communication app All claims being allowable, PROSECUTION ON THE MERITS I herewith (or previously mailed), a Notice of Allowance (PTOL-8 NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT of the Office or upon petition by the applicant. See 37 CFR 1.3	S (OR REMAINS) CLOSED in 5) or other appropriate commining RIGHTS. This application is s	n this application. If not include unication will be mailed in due	ed course. THIS
1. This communication is responsive to <u>02/04/2004</u> .			
2. The allowed claim(s) is/are <u>1-12</u> .			
3. \boxtimes The drawings filed on <u>10 January 2002</u> are accepted by	the Examiner.		
 4. Acknowledgment is made of a claim for foreign priority a) All b) Some* c) None of the: 1. Certified copies of the priority documents hat 2. Certified copies of the priority documents hat 3. Copies of the certified copies of the priority of International Bureau (PCT Rule 17.2(a)). * Certified copies not received: 	ve been received. ve been received in Application documents have been receive	on No d in this national stage applicat	
Applicant has THREE MONTHS FROM THE "MAILING DATE noted below. Failure to timely comply will result in ABANDON THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.	IMENT of this application.		
5. A SUBSTITUTE OATH OR DECLARATION must be sub INFORMAL PATENT APPLICATION (PTO-152) which gi			OTICE OF
 CORRECTED DRAWINGS (as "replacement sheets") m (a) including changes required by the Notice of Draftsper 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examined Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR each sheet. Replacement sheet(s) should be labeled as such in the such as the application of the labeled as such in the department of the labeled as such in the department of the labeled examiner's comment regarding REQUIREMENT. 	erson's Patent Drawing Review er's Amendment / Comment or 1.84(c)) should be written on to the header according to 37 CF posit of BIOLOGICAL MAT	r in the Office action of he drawings in the front (not the R 1.121(d). ERIAL must be submitted. N	
Attachment(s) 1. Notice of References Cited (PTO-892) 2. Notice of Draftperson's Patent Drawing Review (PTO-948) 3. Information Disclosure Statements (PTO-1449 or PTO/SE Paper No./Mail Date 4. Examiner's Comment Regarding Requirement for Deposit of Biological Material	6. Interview S Paper No. 8/08), 7. Examiner's	oformal Patent Application (PTC) ummary (PTO-413), /Mail Date Amendment/Comment Statement of Reasons for Allo	·
	David Nelms rvisory Patent Examiner chnology Center 2800		

Application/Control Number: 10/041,601 Page 2

Art Unit: 2818

DETAILED ACTION

Reason for allowance

- Claims 1-12 are allowed. The following is an examiner's statement of reason for allowance: None of the references of record teaches or suggests the claimed
 *** MEMORY SEMICONDUCTOR DEVICE WITH REDUCED SENSE AMPLIFIER
 AREA ***having the limitations:
- -- " a first connecting area located between the first memory array area and the sense amplifier area; and a second connecting area located between the second memory array area and the sense amplifier area " -- and all other limitations recited in claim 1.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance".

Art Unit: 2818

Conclusion

2. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Thinh T Nguyen whose telephone number is 571-272-1790. The examiner can normally be reached on Monday-Friday 8:30am-5:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Nelms can be reached at 571-272-1787. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 872-9306 for regular communications and (703) 872-9319 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0956.

Thinh T Nguyen TN

Supervisory Patent Examiner Technology Center 2800

Art unit 2818